

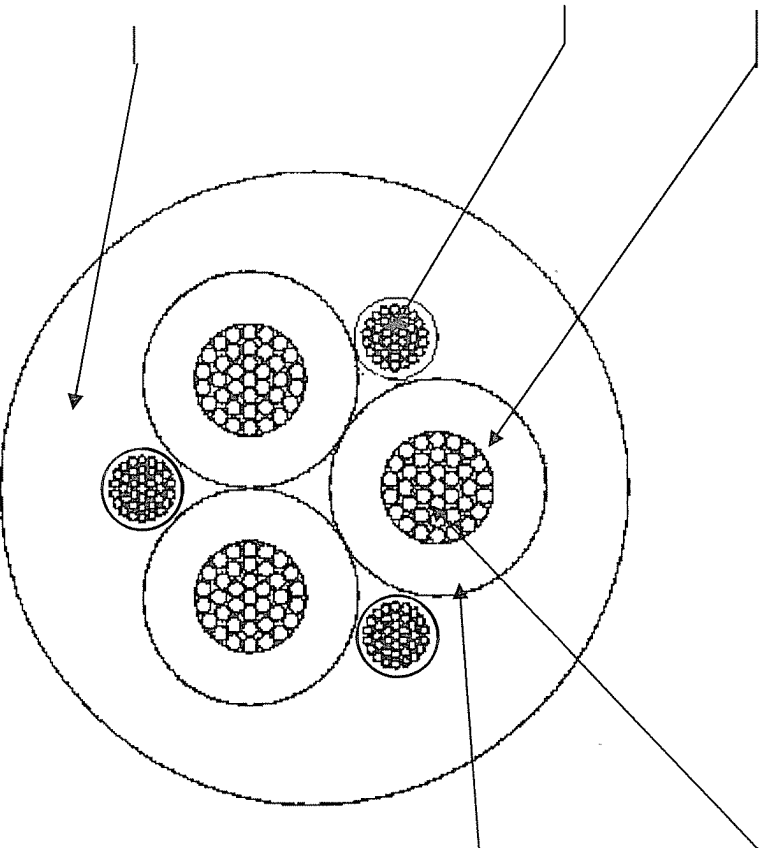
0.425" (min. @ a pt.)
Ethylene Propylene Rubber
Insulation

7 AWG (10.5 mm²)
(133 TC wires) plus
0.030" of extruded
semiconducting covering
(0.251")

0.265" Two-Layer,
Reinforced Extra-
Heavy-Duty CPE Jacket

Nominal Diameter: 3.78"
(96.0 mm)

Ampacity: 184 amps



2 AWG (33.6 mm²)
(259 TC wires) Power
Conductors (0.336")
Plus ESS (0.384")

0.035" EIS plus 0.010" Semi-
conducting tape and nylon/copper
braid shield (1.42")

THREE CONDUCTOR ROUND CABLE
TYPE SHD, 46000V RATED

Catalog# 16299, 460200

3 x 35 mm² + 3 x 10 mm² 46 kV

Drawn By: BLF
Scale: NTS
Date: 7/27/06

Dept: Eng.
No. F-7276

	Cable type	TYPE SHD	Units
1	Standard	ICEA 5-75-381	
2	Nominal voltage	26,5 / 46	kV
3	N° of cores x C.S.A. (American unit system)	3 x 2AWG + 3 x 7AWG	
3	N° of cores x C.S.A. (Metric unit system)	3 x 35mm ² + 3 x 10mm ²	
4	Conductor material	Tinned Cu	
5	Shape	Circular	
6	Class / Standard	class H / ASTM	
7	Nominal diameter	8,53	
8	Conductor screen material	Extruded semi-conducting layer	
9	Nominal radial thickness	0,3	mm
10	Insulation material	EPR	
11	Nominal radial thickness	10,8	mm
12	Nominal diameter over insulation	30,8	mm
13	Insulation screen material (non metallic)	Extruded semi-conducting layer	
14	Nominal radial thickness	0,9	mm
15	Insulation screen material (metallic)	Tinned Cu	
16	Shape	Circular	
17	N° of wires x Diameter	72 / 0,29	N x mm
18	Nominal tape thickness / Overlap	0,25 / 10	mm / %
19	C.S.A.	4,66	mm ²
19	Outer sheath material	EHD CPE	
20	Nominal radial thickness / Minimum at any point	6,73 / 5,38	mm
21	Nominal overall diameter (-0 +5%)	94,2	mm
22	Nominal total weight	10823	kg/km
23	Minimum bending radius	754	mm
24	Maximum conductor DC resistance, at 20°C	0,553	Ohm/km
27	Capacitance per phase	0,144	uF/km
28	Charging current per phase, at U ₀ , @ 60 Hz	2,27	A/km
29	Maximum permanent current rating, in air at 40°C	178	A
30	Maximum conductor temperature in service / in short-circuit	90 / 250	°C
31	Maximum adiabatic short-circuit current rating (0.1/0.5/1.0s)	15,8 / 7,07 / 5	kA
32	K short-circuit constant (90°C - 250°C)	143	As ^{0,5} /mm ²
33	Maximum suspended lenght	60	m
34	Environmental Temperature	-40 +50	°C
35	Torsion degree	100 -110	°/m
36	Flame retardance	according to MSHA Part 7K, 30	
37	Oil and grease resistance	YES	
38	Humidity resistance	YES	
39	UV rays resistance	YES	